Zander Gong

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EDUCATION

Santa Clara University   Santa Clara, CA
Master of Science in Information System   *09/23-present*
- GPA: 3.86/4.0
- Relevant Coursework: Machine Learning

Shanghai Jiao Tong University   **Shanghai, China**
Bachelor of Marine Engineering   *09/18-08/22*
- Outstanding Undergraduate Scholarship in 2021-2022

EXPERIENCE

Marubeni (Shanghai) Co., Ltd   Shanghai, China
Intern of Investment Department   *07/21-08/21*
- Conducted data collection for 15 organizations in different stages of coffee industry.
- Performed data visualization and report formatting on specific company's performance.

PROJECT

Front End Case: Online Ledger (Node.js, MongoDB)   *08/24-Present*
- Realized webpage graphic design and user interactions.
- Applied Express framework to respond HTTP requests and host static documents.
- Applied lowdb as temporary database for storage purpose.

Front End Case: Online Shopping Homepage (HTML, CSS, JavaScript)   *06/24-07/24*
- Conducted page layout using HTML5 and dynamic effects of elements using CSS3.
- Designed and developed the home page with navigation bar, search bar, drop-down menu and other functions to enhance the interaction experience.

Capstone: Model Construction for News Sentiment Analysis (Python, Tensorflow, sklearn)   *01/24-06/24*
- Applied Selenium and Beautiful Soup to develop a web scraper to form training data set of over 1000 articles.
- Applied Tensorflow and sklearn to implement ANN, SVM and combined variant model pipeline to improve F1 score from single model.
- Fine tuned pre-trained BERT model with scraped data and improved F1 score by 9%.

Research of Model Prediction on Twitter Sentiment (Python, Tensorflow, sklearn)   *11/22-01/23*
- Performed data preprocessing on raw text and feature extraction with CountVectorizer, TF-IDF and PCA.
- Detected and addressed class imbalance and improved present optimal accuracy by 12%.
- Published an essay and accepted by International Conference on Signal Processing and Machine Learning in 2023.

Foreign Object Detection Based on Image Recognition (Python, opencv2)   *11/20-04/21*
- Implemented OpenCV to conduct image enhancement and reduced detection omission by 30%.
- Implemented screen split algorithm based on Hough Line Transformation **and** reduced detection time by 17**%.**
- Awarded National-Excellent-Project in the 22nd Innovation Plan for College Students in 2021.

SKILLS & INTERESTS

- Programming Languages: C++, Java, Python, SQL, JavaScript, HTML;
- Tools: Microsoft Office, Git;